

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : SANYO ELECTRIC CO LTD

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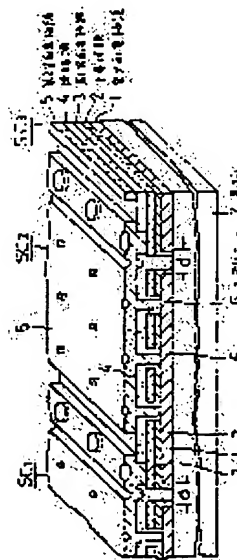
(72)Inventor : KIYAMA SEIICHI  
HOSOKAWA HIROSHI

## (54) PHOTOELECTROMOTIVE FORCE DEVICE

### (57)Abstract:

**PURPOSE:** To obtain optimized excellent output characteristics by determining the sizes and the positional intervals of connection places in view of the output power on the basis of calculated output currents of the connection places.

**CONSTITUTION:** A semiconductor film 2, a first rear surface electrode film 3, an insulating film 4, and a second rear surface electrode film 5 are superimposed in order to a substrate 7. This is a photoelectromotive force device constituted by plural unit photoelectric conversion elements in each of which a second rear surface electrode film 5 is electrically connected with a light-receiving electrode film 1 through contact holes in an insulation film 4 at a plurality of connection places in the light-receiving area. The unit photoelectric conversion elements are electrically connected to each other in series because the first rear surface electrode film 3 of one of the photoelectric conversion elements is connected to the second rear surface electrode film 5 of an adjacent photoelectric conversion element. In this case, the sizes and the positional intervals of connection are determined in view of the output power based on the output currents at connection places. For example, the size and number of contact holes 6 are determined by calculating the output currents at the contact holes 6 and by considering the output power based on this. This makes it possible to obtain a photoelectromotive force device having optimum output characteristics.



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